IN THE CLAIMS:

Please cancel claims 1-3 and add new claims 4-7.
Claims 1-3 (canceled).

4. (new): An assisted reverberation or room acoustic enhancement system, comprising:

multiple microphones positioned to pick up reverberant sound in a room,

multiple loudspeakers to broadcast sound into the room, and

a multichannel reverberator, comprising:

multiple signal inputs, one for each input channel and which receive similar bandwidth signals from the microphones;

a number of feed back comb filter networks connected one to each signal input, each comb filter network including a feed forward stage to provide a substantially constant multi-channel power gain at audio frequencies;

a cross-coupling network cross-coupling the comb filters to increase the reverberation echo density;

and multiple signal outputs, one for each output channel.

5. (new): An assisted reverberation or room acoustic enhancement system according to claim 1, wherein the feed

forward stage of the comb filters provides a transfer function matrix which is unitary at each frequency in the audio range.

- 6. (new): An assisted reverberation or room acoustic enhancement system according to claim 1, wherein the cross-coupling matrix is an orthogonal cross-coupling matrix cross-coupling a number of single channel allpass comb filters, positioned immediately before or after the delay lines, to create a multi-channel allpass comb filter with a unitary transfer function matrix at all frequencies.
- 7. (new): A multi-channel unitary reverberator comprising:

multiple signal inputs, one for each input channel,
a number of feedback comb filter networks connected

one to each signal input, each comb filter network

including a feed forward stage to provide a substantially

constant multi-channel power gain at audio frequencies,

wherein there is one multiplier in each channel residing in

both the feed forward and feedback networks,

a cross-coupling network cross coupling the comb filters to increase the reverberation echo density, and multi signal outputs, one for each output channel.

Respectfully submitted

Reg. No. 32,201

Woodard, Emhardt et al. LLP

Bank One Center/Tower

111 Monument Circle, Suite 3700 Indianapolis, Indiana 46204-5137

(317) 634-3456

#252938